S1210
User's Manual

Beijing ART Technology Development Co., Ltd.

S1110 Bridge Strain Isolation and Conversion Module

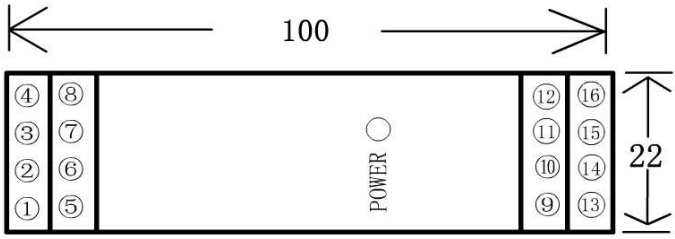
Single Input and Dual Output

Features

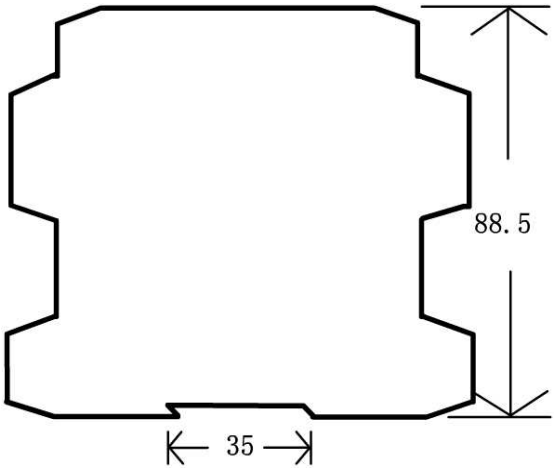
- Support full-bridge, 1/2 bridge, 1/4 bridge (can be customized)
- Three-port isolation, DIN T-type rail mounting

Dimension: (mm)

Top View:



Side View



The Range of Input and Output

Bridge Resistance	Input Range	Output Range
1K	-10~10 mV	0~20mA
350R	-15~15 mV	4~20mA
120R	-20~20 mV	0~5V
	-50~50 mV	1~5V
	-75~75mV	-5~5V
	-100~100 mV	0~10V
		-10~10V

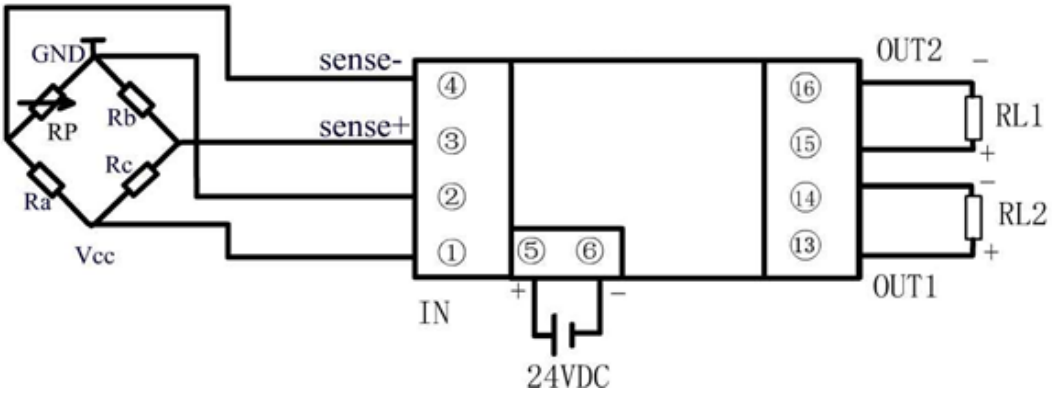
Technical Parameters:

- Output Load Resistance: Voltage: ≥10KΩ
  Current: 0~500Ω
- Isolation: input, output and power isolated
- Isolation Voltage: 1000V DC/1min
- Power Supply: 24VDC±10%
- Power Current: < 40mA
- Precision: 0.2%
- Frequency Response: 10Hz
- Operating Temperature: -20℃~70℃

NOTE: Before using the module, it should be preheated for 15 minutes.

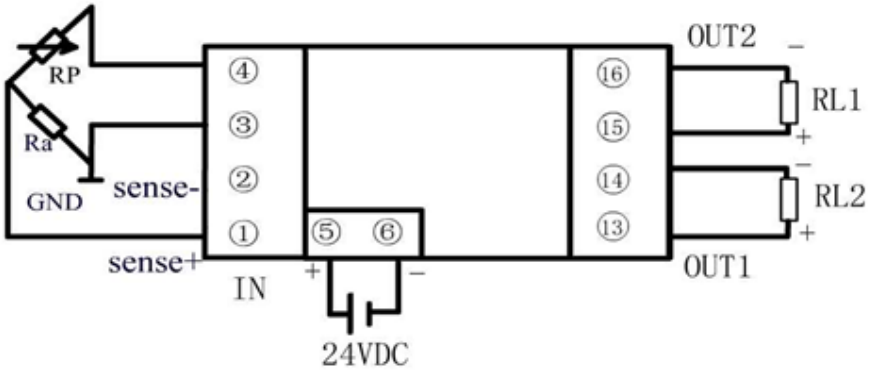
The Method of Wiring

Full-bridge



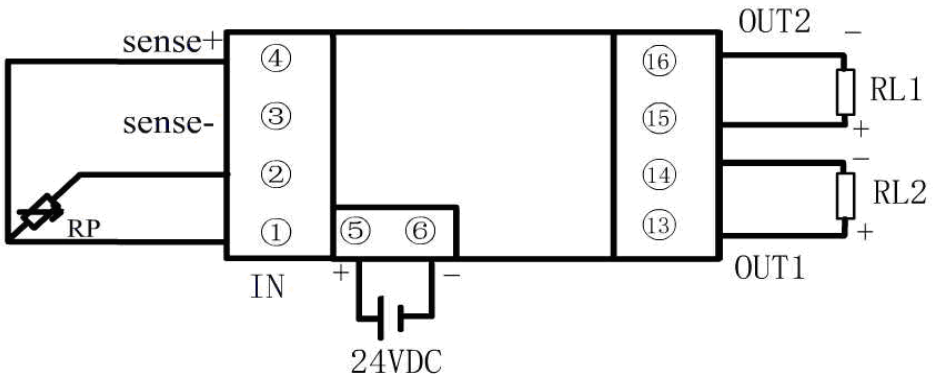
Note: The excitation voltage of the 3-4 pin is 10V/5V/2.5 (selectable).
We can measure the signal pressure difference between the 1-pin and 2-pin.

1/2-bridge



Note: The excitation voltage of the 3-4 pin is 10V/5V/2.5 (selectable).
In the method, 2-pin is internal wiring, no need to external wiring.
We can measure the signal pressure difference between the 1-pin and 2-pin.

1/4-bridge



Note: Because the internal 4-pin does not connect with the ground, so when connect the sensor between the 3-pin and 4-pin, we can not measure the normal excitation voltage.
In the method, 2-pin is internal wiring, no need to external wiring.
We can measure the signal pressure difference between the 1-pin and 2-pin.

Warranty Policy

Thank you for choosing ART. To understand your rights and enjoy all the after-sales services we offer, please read the following carefully.

1. Before using ART products please read the user manual and follow the instructions exactly. When sending in damaged products for repair, please attach an RMA application form which can be downloaded from: www.art-control.com.

2. All ART products come with a limited two-year warranty:

- The warranty period starts on the day the product is shipped from ART factory
- For products containing storage devices (hard drives, flash cards, etc.), please back up your data before sending them for repair. ART is not responsible for any loss of data.
- Please ensure the use of properly licensed software with our systems. ART does not condone the use of pirated software and will not service systems using such software. ART will not be held legally responsible for products shipped with unlicensed software installed by the user.

3. Our repair service is not covered by ART guarantee in the following situations:

- Damage caused by not following instructions in the User's Manual.
- Damage caused by carelessness on the user's part during product transportation.
- Damage caused by unsuitable storage environments (i.e. high temperatures, high humidity, or volatile chemicals).
- Damage from improper repair by unauthorized ART technicians.
- Products with altered and/or damaged serial numbers are not entitled to our service.

4. Customers are responsible for shipping costs to transport damaged products to our company or sales office.

5. To ensure the speed and quality of product repair, please download an RMA application form from our company website.